

Organizing and Scientific Committee

Gonzalo Guirado, PhD Coordinator of the studies in Chemistry and President of the Chemistry PhD Committee (UAB).

Félix Busqué, Master Coordinator of the studies in Chemistry and President of the Chemistry Master Committee (UAB).

Jordi García-Antón, Secretary of PhD and Master Studies Committee (UAB).

Ramon Alibés, Vocal of PhD and Master Studies Committee (UAB).

José Peral, Vocal of PhD and Master Studies Committee (UAB).

María Isabel Pividori, Vocal of PhD and Master Studies Committee (UAB).

Gregori Ujaque, organizer of the UAB Cycle Chemistry Conferences.

Marta Sánchez, PhD Student, Department of Chemistry, UAB

Further Information

If you have any comments, suggestions or doubts about the "JORNADES DOCTORALS – 2015", please do not hesitate in contacting us

Dr. **Gonzalo Guirado López**

PhD Coordinator of the studies in Chemistry

Marià Plou

Administrative Assistant PhD Studies in Chemistry

Telf. 93 581 19 97

Fax: 93 581 24 77

e-mail: gestio.postgrau.quimica@uab.cat

Web: <http://www.uab.cat/departament/quimica/>

More info at the "JORNADES DOCTORALS-2015

<http://www.uab.cat/departament/quimica/>

Event Sponsored by:

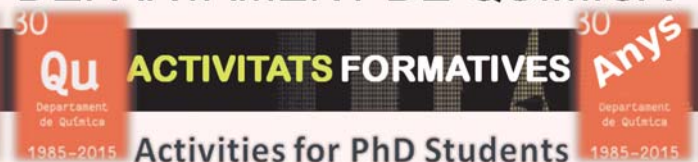


**DEPARTAMENT
DE QUÍMICA
DE LA UAB**



UAB

DEPARTAMENT DE QUÍMICA



**Sala d'Actes
May 27 to 29, 2015
Facultat de Ciències i Biociències
Universitat Autònoma de Barcelona**

Activitat Formativa del Doctorat en Química

Programa de Doctorat en Química (Programa Verificat)

*Programa de Doctorat distingit amb Menció cap a l'Excel·lència pel
Ministerio de Educación Nº MEE2011-0466
Cursos 2011/12 - 2012/13 - 2013/14- 2014/15*

WELCOME TO JORNADES DOCTORALS-2015

It is our great pleasure to welcome you to the "Cinquena Edició de les Jornades Doctorals" that are organized by the PhD Chemistry Program and the Chemistry Department. This event aims to relate the chemical research performed by the PhD students of the UAB Chemistry PhD program, and related programs, with Industrial and Entrepreneurial Opportunities. In its fourth edition, the "Jornades Doctorals-2015" include an exciting series of conferences by 3rd-4th year UAB-Chemistry PhD students and three lectures by academic experts in different fields of chemistry:

- **Wednesday, 27 May 2015:** [Dr. Thierry Billard](#), Director of Research CNRS – HDR and President of NMR Centre at the ICBMS - Institute of Chemistry and Biochemistry in Lyon. His research activities are interdisciplinary between chemistry and medicine.

- **Thursday, 28 May 2015:** [Dr. Michael Graetzel](#), Professor at the Ecole Polytechnique de Lausanne, author of over 1000 publications and inventor of more than 50 patents, his work has been cited over 134'000 times (h-index 167) making him one of the 10 most highly cited chemists in the world.

- **Friday, 29 May 2015:** [Dr. Samuel Sánchez](#), Professor at Max Planck Institute for Intelligent Systems, MIT Technology Review's Innovator award 2014, Princess of Girona Foundation Award 2015 and PhD Student of the UAB, Sensors and Biosensors Group, from 2005 to 2008.

We look forward to your participation in this event.

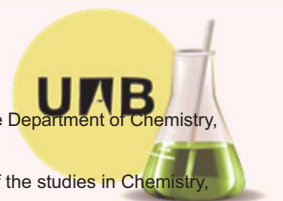
SCIENTIFIC PROGRAM

May 27, 2015

15.00 h: OPENING CEREMONY

Prof. [Rosa Maria Ortuño Mingarro](#), Director of the Department of Chemistry, UAB.

Prof. [Gonzalo Guirado López](#), PhD Coordinator of the studies in Chemistry, UAB.



May 27, 2015

15.15 h: "JORNADES DOCTORALS" LECTURE:

"CF3S group: Why such an interest? How to introduce it onto molecules?"

Professor Thierry Billard

16.30-18.00 h: COFFEE BREAK AND POSTER SESSION

May 28, 2014

9.30-10.45 h: FLASH PRESENTATIONS I

9.30h - 9.45 h- Synthesis and selective surface functionalization of MOF composites - **A. Ayala (FP1.1)**

9.45h - 10.00 h- Microwave-assistant extraction and molecularly imprinted polymer technology for extraction and separation the phosphorous inhibitors of urolithiasis -**T. Liu (FP1.2)**

10.00h - 10.15 h- Non-destructive techniques for direct speciation analysis in Biomaterials - **M. Restituyo (FP1.3)**

10.15h - 10.30 h- Metal oxide nanoparticles for nanostructuring YBCO layers- **A. Garzón-Manjón (FP1.4)**

10.30 h - 10.45 h- New Quinine-based Dendritic Organocatalysts: Recovery Studies on the Enantioselective alpha-Arylation of beta-Keto Esters- **J. J. Jara (FP1.5)**

11.15-12.15 h: FLASH PRESENTATIONS II

11.15 h - 11.30 h- Arsenic and selenium clean removal by metal oxide nanoparticle- **L. He (F.P. 2.1)**

11.30 h - 11.45 h- Ecometabolomic study of plant shoots/roots responses to drought- **A. Gargallo-Garriga (F.P. 2.2)**

11.45 h - 12.00 h- A portable and low-cost near-infrared spectroscopy (NIR) spectrometer that safeguards the solid pharmaceutical industry- **D. Sun (F.P. 2.3)**

12.00 h - 12.15 h- Study of the solid electrolyte interfaces of cathodic and anodic electrodes of lithium-air battery using new ionic liquid-based electrolyte- **E. Knipping (F.P. 2.4)**

15.15-16.30 h: FLASH PRESENTATIONS III

15.15 h - 15.30 h- LiFePO4 Electrodes with Fractal Granularity- **Z. Caban Huertas (FP 3.1)**

15.30 h - 15.45 h- Assessing the content and distribution of acenocoumarol in low dosage tablets using Raman Spectroscopy- **D. Gómez (FP 3.2)**

15.45 h - 16.15 h- Interstellar H2 Formation on Crystalline Silicates Surfaces- **J. Navarro-Ruiz (FP 3.3)**

16.15h - 16.30 h- New highly versatile cyclobutane platforms: Synthesis and Applications-**J. Ospina Chávez (FP 3.4)**

May 28, 2015

17.00 h: "JORNADES DOCTORALS" LECTURE:

""Energy beyond oil"

Professor Michael Graetzel

May 29, 2015

10.00-11.00 h: FLASH PRESENTATIONS IV

10.00 h - 10.15 h- Modern NMR methods for Chemists- **L. Castañar (FP 4.1)**

10.15 h - 10.30 h- New photo-switchable anticancer platinum complexes based in azoderivatives: synthesis, characterization and activity- **K.G. Samper (FP 4.1)**

10.30 h - 10.45 h- Metallacarborane derivatives as new electron accumulative molecular materials- **V. S. Arderiu (FP 4.1)**

10.45 h - 11.00 h- Efficiency of process spectrum methodology in NIR pharmaceuticals quality control analysis. An innovative tool for process analytical technology- **V.Cárdenas (FP 4.1)**

11.30 h: "JORNADES DOCTORALS" LECTURE:

"The "Fantastic Voyage": back where everything started"

Professor Samuel Sánchez

12.30 h: AWARD AND CLOSING CEREMONY

Jornades Doctorals -2015 distinguished Diploma, along with an Ipad, will be given for the two best Poster-Flash Presentations.